



Attorney's Docket No. 38190/274036

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re: Peter N. Comley, Larry D. Hefti Confirmation No.: To be assigned
Appl No.: 10/813,892 Group Art Unit: To be assigned
Filed: March 31, 2004 Examiner: To be assigned
For: SUPERPLASTIC FORMING AND DIFFUSION
BONDING OF FINE GRAIN TITANIUM

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Applicant encloses herewith copies of all non-patent literature in accordance with 37 CFR 1.98(a)(2).

It is requested that the Examiner consider these references and officially make them of record in accordance with the provisions of 37 CFR 1.97 and Section 609 of the MPEP. By submitting the listed documents, Applicant in no way makes any admission as to the prior art status of the listed documents, but is instead submitting the listed documents for the sake of full disclosure.

Respectfully submitted,

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CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to:

Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on April 19, 2004

Lorna Morehead

Substitute for form 1449/PTO
(Revised 04/2003)

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 1 of 2

Complete if Known

Application Number	10/813,892
Filing Date	March 31, 2004
First Named Inventor	Peter M. Comley
Group Art Unit	To be assigned
Examiner Name	To be assigned
Attorney Docket Number	038190/274036

OTHER DOCUMENTS

Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	English Language Translation Attached
	1.	H. VAN SWYGENHOVEN, "Plastic Deformation in Metals with Nanosized Grains: Atomistic Simulations and Experiments," Superplasticity in Advanced Materials-ICSAM 2003, Materials Science Forum Vols. 447-448, 2004, pp. 3-10, Trans Tech Publications, Switzerland	
	2.	H. MUTO, Y. TAKAHASHI and M. SAKAI, "Grain-Size-Dependent Cooperative Grain-Boundary Sliding in Superplastic Deformation," Superplasticity in Advanced Materials-ICSAM 2003, Materials Science Forum Vols. 447-448, 2004, pp. 97-102, Trans Tech Publications, Switzerland	
	3.	WERNER BECK, "Results of In-House Cone-Cup Testing of Low to High Temperature SPF-Alloys," Superplasticity in Advanced Materials-ICSAM 2003, Materials Science Forum Vols. 447-448, 2004, pp. 145-152, Trans Tech Publications, Switzerland	
	4.	M.T. PEREZ-PRADO, J.A. DEL VALLE and O.A. RUANO, "Superplastic Behavior of a Fine Grained AZ61 Alloy Processed by Large Strain Hot Rolling," Superplasticity in Advanced Materials-ICSAM 2003, Materials Science Forum Vols. 447-448, 2004, pp. 221-226, Trans Tech Publications, Switzerland	
	5.	PETER N. COMLEY, "Lowering the Heat - The Development of Reduced SPF Temperature Titanium Alloys for Aircraft Production," Superplasticity in Advanced Materials-ICSAM 2003, Materials Science Forum Vols. 447-448, 2004, pp. 233-238, Trans Tech Publications, Switzerland	
	6.	N. MIYANO, H. IWASA, K. ISONISHI, S. TANAKA, S. SUGIYAMA and K. AMEYAMA, "Application of Psuedo-Superplasticity to Produce TiN/Ti ₅ Si ₃ and TiC/Ti ₅ Si ₃ Nano Grain Composites for Micro Molding," Superplasticity in Advanced Materials-ICSAM 2003, Materials Science Forum Vols. 447-448, 2004, pp. 311-316, Trans Tech Publications, Switzerland	
	7.	CHENG XU, MINORU FURUKAWA, ZENJI HORITA and TERENCE G. LANGDON, "Producing Superplastic Ultrafine-Grained Aluminum Alloys through Severe Plastic Deformation," Superplasticity in Advanced Materials-ICSAM 2003, Materials Science Forum Vols. 447-448, 2004, pp. 403-410, Trans Tech Publications, Switzerland	
	8.	R.Z. VALIEV, R.K. ISLAMGALIEV and N.F. YUNUSOVA, "Microstructural Aspects in Superplasticity of Ultrafine-Grained SPD Alloys," Superplasticity in Advanced Materials-ICSAM 2003, Materials Science Forum Vols. 447-448, 2004, pp. 411-416, Trans Tech Publications, Switzerland	
	9.	F. MUSIN, R. KAIBYSHEV, Y. MOTOHASHI and G. ITOH, "Superplastic Behaviour and Microstructure Evolution in a Commercial Ultra-Fine Grained Al-Mg-Sc Alloy," Superplasticity in Advanced Materials-ICSAM 2003, Materials Science Forum Vols. 447-448, 2004, pp. 417-422, Trans Tech Publications, Switzerland	
	10.	P.J. APPS, C.P. HEASON and P.B. PRANGNELL, "Ultrafine-Grain Structures Produced by Severe Deformation Processing," Superplasticity in Advanced Materials-ICSAM 2003, Materials Science Forum Vols. 447-448, 2004, pp. 423-428, Trans Tech Publications, Switzerland	
	11.	G.A. SALISHCHEV, O.R. VALIAKHMETOV, R.M. GALEYEV and F.H. FROES, "Characterization of Submicron-Grained Ti-6Al-4V Sheets with Enhanced Superplastic Properties," Superplasticity in Advanced Materials-ICSAM 2003, Materials Science Forum Vols. 447-448, 2004, pp. 441-446, Trans Tech Publications, Switzerland	

Examiner Signature		Date Considered	
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*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Substitute for form 1449/PTO (Revised 04/2003) INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				Complete if Known	
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OTHER DOCUMENTS					
	12.	G.A. SALISHCHEV, S.V. ZHEREBTSOV, O.R. VALIAKHMETOV, R.M. GALEYEV and S.YU. MIRONOV, "Development of Submicrocrystalline Titanium Alloys Using "abc" Isothermal Forging," Superplasticity in Advanced Materials-ICSAM 2003, Materials Science Forum Vols. 447-448, 2004, pp. 459-464, Trans Tech Publications, Switzerland			
	13.	F. MUSIN, R. KAIBYSHEV, Y. MOTOHASHI and G. ITOH, "Achievement of Low Temperature Superplasticity in a Commercial Aluminum Alloy Processed by Equal-Channel Angular Extrusion," Superplasticity in Advanced Materials-ICSAM 2003, Materials Science Forum Vols. 447-448, 2004, pp. 465-470, Trans Tech Publications, Switzerland			
	14.	TSUTOMU TANAKA, HIROYUKI WATANABE, MASAHIKO KOHJU and KENJI HIGASHI, "Microstructure and Superplastic Properties at Room Temperature in Zn-22Al Alloy after Equal-Channel-Angular Extrusion," Superplasticity in Advanced Materials-ICSAM 2003, Materials Science Forum Vols. 447-448, 2004, pp. 489-494, Trans Tech Publications, Switzerland			
	15.	KOICHI MAKII, SEIYA FURUTA, KAZUO AOKI, ATSUMICHI KUSHIBE, TSUTOMU TANAKA and KENJI HIGASHI, "A Nano-Crystalline Zn-Al Alloy with High Speed Superplasticity at Room Temperature and the Application for Seismic Damper," Superplasticity in Advanced Materials-ICSAM 2003, Materials Science Forum Vols. 447-448, 2004, pp. 497-504, Trans Tech Publications, Switzerland			
	16.	MURRAY MAHONEY, A.J. BARNES, W.H. BINGLE and C. FULLER, "Superplastic Forming of 7475 Al Sheet after Friction Stir Processing (FSP)," Superplasticity in Advanced Materials-ICSAM 2003, Materials Science Forum Vols. 447-448, 2004, pp. 505-512, Trans Tech Publications, Switzerland			

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